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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/752,199	12/29/2000	Dean Throop	40921/250098	8124
26108 7:	590 04/01/2005		EXAMINER	
DANIELS DANIELS & VERDONIK, P.A. SUITE 200 GENERATION PLAZA			SCHNEIDER, JOSHUA D	
	HWAY 54 EAST		ART UNIT	PAPER NUMBER
DURHAM, NC 27713			2182	
			DATE MAILED: 04/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/752,199	THROOP, DEAN			
Office Action Summary	Examiner	Art Unit			
	Joshua D Schneider	2182			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mai earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a repeply within the statutory minimum of thirty of will apply and will expire SIX (6) MONTI ute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 18	January 2005.				
·= · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allow					
Disposition of Claims					
4) Claim(s) 1-23 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) Claim(s) is/are allowed. 6) Claim(s) 1-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers		ı			
9)☐ The specification is objected to by the Exami	ner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	= : :				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Apriority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s)	A\∏				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date	08) 5) ☐ Notice of Inf 6) ☐ Other:	ormal Patent Application (PTO-152)			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 2 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. With regards to claims 2 and 14, Applicant claims structuring the field of the SCSI request in a manner substantially the same as a direct SCSI request. It is unclear to what the limitation substantially refers. It would seem that it is more than just maintaining the structure of the SCSI protocol, as that is a minimal requirement of calling the request a SCSI request.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,470,382 to Wang et al.

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With regards to claims 1 and 13, Wang teaches the a method of transmitting requests to a target device, comprising: establishing a direct IP connection between a computer system and a target device (column 6, lines 31-52); encoding a SCSI request with a tag identifying the request as a SCSI request (column 19, lines 1-12), and structuring the request with a request IP/ID (column 2, lines 39-49, and column 10, lines 38-64); sending the tagged SCSI request to the target device (column 11, line 10, through column 12, line 26); returning the request IP/ID of the SCSI request from the target device to the computer system (column 11, line 10, through column 12, line 26). Wang does not explicitly teach the use of the TCP/IP protocol. It would have been obvious to one of ordinary skill in the art at the time of invention to use the TCP/IP protocol as the IP protocol with the system of Wang in order to increase compatibility with the wide variety of machines that are currently enabled to use well known TCP/IP protocol.

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- 8. With regards to claims 2 and 14, Wang teaches structuring the field of the SCSI request in a manner substantially the same as a direct SCSI request from a host system to a target device (column 2, lines 39-49).
- 9. With regards to claims 6, 8, 17, and 19, Wang teaches the target device is a storage system (column 1, lines 14-18).
- 10. With regards to claims 7, 9, 18, 20, and 23, Wang teaches a server connected to the storage system through SCSI cable, a workstation connected to the server, and further comprising the workstation directly connected to the storage system for establishing the IP connection with the storage system (Figs. 3A-C). Wang teaches server client relationship establishment (column 11, line 10, through column 12, line 26). This relationship is also inherent to the connection establishment under the TCP portion of the TCP/IP protocol. It would

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have been obvious to one of ordinary skill in the art at the time of invention to use the TCP/IP protocol as the IP protocol with the system of Wang in order to increase compatibility with the wide variety of machines that are currently enabled to use well known TCP/IP protocol.

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- With regards to claims 10 and 21, Wang does not explicitly teach denying a connection 11. from the workstation to the target device if a request from the workstation does not include a recognized IP/ID, but such a denial is inherent to TCP/IP. It would have been obvious to one of ordinary skill in the art at the time of invention to use the TCP/IP protocol as the IP protocol with the system of Wang in order to increase compatibility with the wide variety of machines that are currently enabled to use well known TCP/IP protocol.
- With regards to claims 11 and 22, Wang does not explicitly teach denying a connection 12. from the computer system to the target device if the time for reading a completed message exceeds a predetermined amount of time, but such a denial is inherent to TCP/IP. It would have been obvious to one of ordinary skill in the art at the time of invention to use the TCP/IP protocol as the IP protocol with the system of Wang in order to increase compatibility with the wide variety of machines that are currently enabled to use well known TCP/IP protocol.
- With regards to claim 12, Wang teaches a direct connection is established on a network 13. separate from a SCSI cable connection between the host system and the target device (column 11, line 10, through column 12, line 26).

14.

With regards to claims 3 and 15, Wang does not explicitly teach sending SCSI request 15. over an Ethernet connection using the TCP/IP protocol and the encoding including a data buffer containing data to allow the target device to read the data buffer using the established TCP/IP

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connection. However, it was notoriously well known in the art at the time of invention that receive and transmit buffers were used in popular commercially available Ethernet chips used to implement the LAN and IP environments taught by Wang. It would have been obvious to one of ordinary skill in the art to use transmit and receive Ethernet buffering to facilitate SCSI transfers over a TCP/IP protocol.

- 16. With regards to claim 4, Wang does not explicitly teach sending SCSI request over an Ethernet connection using the TCP/IP protocol and sending the data in conjunction with the SCSI request in a manner substantially different from direct SCSI requests from a host system to a target device, and which allows the host system to supply the data buffer without an explicit request from the target system, whereby the target system is allowed to receive the data immediately following the request without having to make an explicit request to obtain the data buffer. However, it was notoriously well known in the art at the time of invention that receive and transmit buffers were used in popular commercially available Ethernet chips. It would have been obvious to one of ordinary skill in the art to use transmit and receive Ethernet buffering to facilitate SCSI transfers over a TCP/IP protocol.
- 17. With regards to claims 5 and 16, Wang does not explicitly teach sending SCSI request over an Ethernet connection using the TCP/IP protocol and returning a data buffer generated by the target device to the workstation using the established TCP/IP connection. However, it was notoriously well known in the art at the time of invention that receive and transmit buffers were used in popular commercially available Ethernet chips. It would have been obvious to one of ordinary skill in the art to use transmit and receive Ethernet buffering to facilitate SCSI transfers over a TCP/IP protocol.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua D Schneider whose telephone number is (571) 272-4158. The examiner can normally be reached on M-F, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A Gaffin can be reached on (571) 272-4146. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JDS

JEFFREY GAFFIN

UPENVISORY PARENT EXAMINER

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